

PDR RID Report

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Document FOS Design Spec

RID ID	PDR	87
Review	FOS	
Originator Ref		DR2
Priority	2	

Section 5.1.2.1.1

Page NA

Figure Table NA

Category Name Design

Actionee HAIS

Sub Category

Subject Activity Constraint Checking

Description of Problem or Suggestion:

In looking at your design, I do not see where constraint checking between activities (e.g., "don't allow MISR to go into local mode while ASTER is pointing") is accommodated.

Originator's Recommendation

Include this requirement in your design if it is not there.

GSFC Response by:

GSFC Response Date

HAIS Response by: D. Herring

HAIS Schedule 1/13/95

HAIS R. E. B. Moore

HAIS Response Date 1/19/95

The class FpRmSpacecraftComponent performs constraint checking between instruments (and subsystems) through the function "CheckValidModeTransition()". Each of the EOS instrument classes and spacecraft subsystem classes are derived from FpRmSpacecraftComponent, so they contain this constraint checking capability. Therefore, when a user attempts to schedule an instrument into a certain mode (e.g. MISR in local mode from 10:30 to 11:00), the FpRmInstrument class checks to make sure this is a valid mode transition (e.g. verify ASTER is not slewing from 10:30 to 11:00). Refer to section 5.1.2.1.1 of the PDR Design Spec for additional details.

Status Closed

Date Closed 2/1/95

Sponsor Johns

***** Attachment if any *****